What is claimed is:

- A method of producing an inducing feed composition, said method comprising the steps of:
 - a. Mixing a first solution with a whole cellulase preparation to give a first mixture;
 and
 - b. Incubating the first mixture at a temperature and for a sufficient time to produce the inducing feed composition.
- 2. The method of Claim 1 wherein the first solution is a concentrated glucose solution comprising from about 5% to about 75% (wt/wt) glucose.
- 3. The method of Claim 1 wherein the first solution is a concentrated glucose solution comprising from about 50% to about 75% (wt/wt) glucose.
- 4. The method of Claim 1 wherein the first solution is a cellobiose solution comprising from about 5% to about 40% (wt/wt) cellobiose.
- 5. The method of Claim 1 wherein the first solution is a cellobiose solution comprising from about 20% to about 40% (wt/wt) cellobiose.
- 6. The method of Claim 1 wherein the whole cellulase preparation is from about 2 g/L to about 10 g/L protein.
- 7. The method of Claim 1 wherein the whole cellulase preparation is about 5 g/L protein.
- 8. The method of Claim 1 wherein the temperature is from about 50°C to about 75°C.
- 9. The method of Claim 1 wherein the solution is incubated for between 8 hours and 500 hours.
- The method of Claim 1 wherein the solution is incubated for between 48 hours and 72 hours.
- 11. An inducing feed composition produced by the method of Claim 1.
- 12. The inducing feed composition of Claim 11 comprising a mixture of sugars.
- 13. The inducing feed composition of Claim 11 comprising sophorose.
- 14. The inducing feed composition of Claim 11 comprising gentiobiose.
- 15. A method for producing proteins comprising providing a host cell with the inducing feed composition of Claim 11.
- The method of claim 15 wherein the protein produced is an endogenous cellulase.
- 17. The method of claim 15 wherein the host cell has been transformed with an expression construct comprising a promoter operably linked to a gene encoding a protein of interest.
- 18. The method of claim 17 wherein the promoter is an inducible promoter.
- 19. The method of claim 17 wherein the promoter is a cellulase gene promoter.
- 20. The method of claim 19 wherein the promoter is the *cbh 1* promoter from *Trichoderma reesei*.

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- 21. The method of claim 18 wherein the inducible promoter is a sophorose-inducible promoter.
- 22. The method of claim 18 wherein the inducible promoter is a gentiobiose-inducible promoter.
- 23. The method of claim 17 wherein the protein of interest is a heterologous protein.
- 24. The method of claim 23 wherein the heterologous protein is selected from the group consisting of hormones, enzymes, growth factors, cytokines, and antibodies.
- 25. The method of claim 15 wherein the host cell is a filamentous fungus.
- 26. The method of claim 25 wherein the fungus is selected from the group consisting of *Trichoderma*, *Humicola*, *Fusarium*, *Aspergillus*, *Neurospora*, *Penicillium*, *Cephalosporium*, *Achlya*, *Podospora*, *Endothia*, *Mucor*, *Cochliobolus* and *Pyricularia*.
- 27. The method of claim 26 wherein the fungus is *Trichoderma spp*.
- 28. The method of claim 27 wherein the fungus is *Trichoderma reesei*.
- 29. The method of claim 26 wherein the fungus is *Penicillium spp*.
- 30. The method of claim 29 wherein the fungus is Penicillium funiculosum.
- 31. The method of claim 15 wherein the host cell is a bacteria.
- 32. The method of claim 31 wherein the bacteria is selected from the group consisting of *Streptomyces*, *Thermomonospora*, *Bacillus*, and *Cellulomonas*.
- 33. The method of Claim 1 wherein the whole cellulase preparation is immobilized